

APR 18 2007

Application ser. no. 10/773,068

AMENDMENTS TO THE CLAIMS

1. (currently amended) A method of testing browser software in a computer environment, the method comprising the steps of:

generating a list of URLs (Universal Resource Location) using a web crawler;

5 applying a browser test script, wherein said browser test script automatically instructs a first browser program containing said browser software to load and render web pages according to the list of URLs, wherein said browser test script tests said browser software over a plurality of applications at sites contained within the list of URLs;

detecting one or more errors in rendering of said first browser program using the web pages; and

10 automatically storing information about said one or more errors;

wherein said step of applying a browser test script is performed while said first browser program is under development and prior to distribution.

2. (Original) The method of Claim 1, wherein the one or more errors include a crash of the first browser program in rendering one of the web pages.

3. (Original) The method of Claim 1, wherein the detecting of the one or more errors comprising the step of:

automatically instructing a second browser program to load and render the web pages; and

comparing a representation of rendering results of the first browser program to a representation of rendering results of the second browser program.

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4. (Original) The method of Claim 3, wherein one or more errors are detected when the representation of rendering results of the first browser program does not match the representation of rendering results of the second browser program.
5. (Original) The method of Claim 4, wherein the representation of rendering results of the first browser program comprises a screen image of a web page rendered by the first browser program.
6. (Original) The method of Claim 4, wherein the representation of rendering results of the first browser program comprises an internal representation of a web page as interpreted by the first browser program.
7. (Original) The method of Claim 6, the internal representation of the web page comprises attributes of the web page, including:
 - a background color;
 - a number of columns of a table; and
 - a number of rows of a table.
- 5 8. (Original) The method of Claim 1, further comprising the step of:
 - automatically restarting the first browser program after a crash of the first browser program in rendering one of the web pages.
9. (previously presented) The method of Claim 1, further comprising the step
10 of avoiding duplicated visits to a same URL.
10. (Original) The method of Claim 1, wherein a number of URLs are removed

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from the URLs reported by the web crawler to generate the list of URLs.

11. (currently amended) An apparatus of testing browser software in a computer environment, comprising:

a module for generating a list of URLs (Universal Resource Location) using a web crawler;

a browser test script module, wherein said browser test script module automatically instructs a first browser program containing said browser software to load and render web pages according to the list of URLs, wherein said browser test script tests said browser software over a plurality of applications at sites contained within the list of URLs;

a module for detecting one or more errors in rendering of said first browser program using the web pages; and

a module for automatically storing information about said one or more errors;

wherein said first browser program is under development prior to distribution of said browser program.

12. (Original) The apparatus of Claim 11, wherein the one or more errors include a crash of the first browser program in rendering one of the web pages.

13. (Original) The apparatus of Claim 11, wherein the module for the detecting of the one or more errors comprising:

a module for automatically instructing a second browser program to load and render the web pages; and

a module for comparing a representation of rendering results of the first browser program to a representation of rendering results of the second browser

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program.

14. (Original) The apparatus of Claim 11, wherein one or more errors are detected when the representation of rendering results of the first browser program does not match the representation of rendering results of the second browser program.

15. (Original) The apparatus of Claim 14, wherein the representation of rendering results of the first browser program comprises a screen image of a web page rendered by the first browser program.

16. (Original) The apparatus of Claim 14, wherein the representation of rendering results of the first browser program comprises an internal representation of a web page as interpreted by the first browser program.

17. (Original) The apparatus of Claim 16, the internal representation of the web page comprises attributes of the web page, including:

- a background color;
- a number of columns of a table; and
- a number of rows of a table.

18. (Original) The apparatus of Claim 11, further comprising:

a module for automatically restarting the first browser program after a crash of the first browser program in rendering one of the web pages.

19. (Original) The apparatus of Claim 11, further comprising a module for avoiding duplicated visits to a same URL.

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20. (Original) The apparatus of Claim 11, wherein a number of URLs are removed from the URLs reported by the web crawler to generate the list of URLs.

21. (currently amended) A program storage medium readable by a computer, tangibly embodying a program of instructions executable by the computer to perform a method for testing browser software in a computer environment, the method comprising the steps of:

generating a list of URLs (Universal Resource Location) using a web crawler;

applying a browser test script, wherein said browser test script automatically instructs a first browser program containing said browser software to load and render web pages according to the list of URLs, wherein said browser test script tests said browser software over a plurality of applications at sites contained within the list of URLs;

detecting one or more errors in rendering of said first browser program using the web pages; and

automatically storing information about said one or more errors;

wherein said step of applying a browser test script is performed while said first browser program is under development and prior to distribution.

22. (Original) The medium of Claim 21, wherein the one or more errors include a crash of the first browser program in rendering one of the web pages.

23. (Original) The medium of Claim 21, wherein the method of detecting of the one or more errors comprising the step of:

automatically instructing a second browser program to load and render the

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web pages; and

comparing a representation of rendering results of the first browser program to a representation of rendering results of the second browser program.

24. (Original) The medium of Claim 23, wherein one or more errors are detected when the representation of rendering results of the first browser program does not match the representation of rendering results of the second browser program.

25. (Original) The medium of Claim 24, wherein the representation of rendering results of the first browser program comprises a screen image of a web page rendered by the first browser program.

26. (Original) The medium of Claim 24, wherein the representation of rendering results of the first browser program comprises an internal representation of a web page as interpreted by the first browser program.

27. (Original) The medium of Claim 26, the internal representation of the web page comprises attributes of the web page, including:

- a background color;
- a number of columns of a table; and
- a number of rows of a table.

28. (Original) The medium of Claim 21, the method further comprising the step of:

automatically restarting the first browser program after a crash of the first browser program in rendering one of the web pages.

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29. (Original) The medium of Claim 21, the method further comprising the step of avoiding duplicated visits to a same URL.
30. (Original) The medium of Claim 21, wherein a number of URLs are removed from the URLs reported by the web crawler to generate the list of URLs.
31. (cancelled)
32. (previously presented) The method of Claim 3, wherein a rendering of a
5 known browser program is compared with said first browser program to validate
in part said first browser program.